



ENFORCER Products, Inc.  
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# Material Safety Data Sheet and Safe Handling and Disposal Information

## Section 1. Chemical Product and Company Identification

**Product name** Heavy Duty Drain Opener

**Product Code** PHDO32/64 **CNPHDO-64**

**Date of issue** 8/20/03 **Supersedes** 3/26/02

**Emergency Telephone Numbers** For MSDS Information:  
Compliance Services (404) 352-1680

**For a Medical Emergency:**  
CHEM-TEL  
(800) 255-3924 (Toll Free - Calls Recorded)

**For a Transportation Emergency:**  
CHEMTREC  
(800) 424-9300 (Toll Free - Calls Recorded)

**Printing Date:**

**Prepared by** Compliance Services Group  
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1420 Seaboard Industrial Blvd.  
Atlanta, GA 30318

## Section 2. Composition, Information on Ingredients

Name of Hazardous Ingredients	CAS #	% by Weight	Exposure Limits
SODIUM HYDROXIDE; caustic soda; soda lye	1310-73-2	15-25	ACGIH / OSHA (United States). CEIL: 2 mg/m <sup>3</sup>

## Section 3. Hazards Identification

**Acute Effects** **Routes of Entry** Eye contact. Ingestion.

**Skin** Hazardous in case of skin contact (corrosive). Skin contact may produce burns.

**Eyes** Hazardous in case of eye contact (corrosive).

**Inhalation** Hazardous in case of inhalation (lung corrosive). Inhalation of the vapor may produce severe irritation of respiratory tract, characterized by coughing, choking, or shortness of breath.

**Ingestion** May be fatal if swallowed. May cause burns to mouth, throat and stomach.

**Carcinogenic Effects** Not listed as carcinogen by OSHA, NTP or IARC.

**Chronic Effects** Repeated or prolonged contact with spray mist may produce chronic eye irritation and severe skin irritation. Repeated or prolonged exposure to spray mist may produce respiratory tract irritation leading to frequent attacks of bronchial infection.

See Toxicological Information (section 11)

### HMIS

Health	3
Fire Hazard	0
Reactivity	0
Personal Protection	B

## Section 4. First Aid Measures

**Eye Contact** Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Get medical attention immediately.

**Skin Contact** In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention immediately.

**Inhalation** If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.

**Ingestion** Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention immediately.

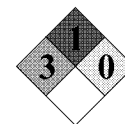
## Section 5. Fire Fighting Measures

**Flash Point** Not available. **Flammable Limits** Not available.

**Flammability** Not available.

**Fire Hazard** Not applicable.

**Fire-Fighting Procedures** Use DRY chemicals, CO<sub>2</sub>, water spray or foam.



## Section 6. Accidental Release Measures

**Spill Clean up** Absorb with an inert material and place in an appropriate waste disposal container.

## Section 7. Handling and Storage

**Handling** Do not breathe vapor or mist. Keep container closed. Use only with adequate ventilation. Wash thoroughly after handling.

**Storage** Keep container tightly closed. Keep container in a cool, well-ventilated area. Store between 40°F and 120°F. Keep out of the reach of children.

**Section 8. Exposure Controls, Personal Protection****Personal Protection**

**Eyes** Splash goggles.  
**Body** Protective gloves should be worn during handling.  
**Respiratory** Use with adequate ventilation.

**Protective Clothing (Pictograms)****Section 9. Physical and Chemical Properties**

**Physical State** Liquid.  
**pH** >14 [Basic.]  
**Boiling Point** 100°C (212°F)  
**Specific Gravity** 1.26 (Water = 1)  
**Solubility** Not available.

**Color** Colorless.  
**Odor** Odorless.  
**Vapor Pressure** Not available.  
**Vapor Density** Not available.  
**Evaporation Rate** 1 compared to Water  
**VOC (Consumer)** 0 (g/l).

**Section 10. Stability and Reactivity**

**Stability and Reactivity** The product is stable.  
**Incompatibility** Acids, oxidizing agents  
**Hazardous Polymerization** Will not occur.  
**Hazardous Decomposition Products** None known.

**Section 11. Toxicological Information**

**Toxicity to Animals** **Sodium hydroxide:**  
 ORAL (LD50): Acute: 500 mg/kg [Rat].

**Section 12. Ecological Information**

**Ecotoxicity** Not available.  
**Biodegradable/OECD** Not available.

**Section 13. Disposal Considerations**

**Waste Information** Waste must be disposed of in accordance with federal, state and local environmental control regulations.  
**Waste Stream** RCRA waste - D002  
**Consult your local or regional authorities.**

**Section 14. Transport Information**

**Proper shipping name** Corrosive liquid, basic, inorganic, n.o.s. (Sodium hydroxide) or Consumer Commodity ORM-D in Limited Quantity  
**DOT Classification** Class 8: Corrosive liquid.  
**UN number** UN3266  
**TDG Classification** TDG Class 8: Corrosive liquid.  
 TDG Class 9.2: Environmentally hazardous material.

**Section 15. Regulatory Information**

**U.S. Federal Regulations** SARA 313 toxic chemical notification and release reporting: No products were found.  
 Clean Water Act (CWA) 311: Sodium hydroxide  
 Clean air act (CAA) 112 regulated toxic substances: No products were found.  
**State Regulations** California prop. 65: No products were found.  
**WHMIS (Canada)** Class D-1A: Material causing immediate and serious toxic effects (VERY TOXIC).  
 Class E: Corrosive liquid.

**Section 16. Other Information**

*To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein.  
 Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.*